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USAF review completed.

NAVY review completed.

ARMY review completed.

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INFORMATION REPORT

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PREPARED AND DISSEMINATED BY
CENTRAL INTELLIGENCE AGENCY

COUNTRY Hungary

ARMY review completed.

SUBJECT Geophysical Research

DATE DISTRIBUTED 19 Mar '57

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SUPPLEMENT TO REPORT #

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THIS IS UNEVALUATED INFORMATION

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This report is the result of a joint collection effort by the Air Force, the Army, the Navy, and CIA and is disseminated in accordance with the provisions of NSCID #7.

USAF review completed.

NAVY review completed.

1. The new Hungarian triangulation network, started in 1946, has been completed as far as the first order frames and filling-in nets are concerned. Preliminary (unadjusted) coordinates of the lower order control are also available. This control has been converted into the Soviet system (Pulkovo 1942); however, the trig lists of both the Hungarian and the Soviet coordinates are classified and are not in use in any civilian agency. The Geophysical Institute used the prewar stereographic control of the Budapest system.

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2. 1:25,000, 1:50,000 and 1:75,000 maps These maps had been in use during World War II. After the war, a revision program was carried out by military surveyors, which resulted in the revision of these maps by 1948. The grid used on them is still the old stereographic grid. There exists an edition of these maps with the Soviet military grid superimposed. This edition is classified and is not available to civilian agencies. During 1955 and 1956 a large numer of surveying parties were working on a new survey for the 1:5000 Altalanos Alapterkep (General Base Map) of Hungary.

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3.

4. A gravity iso-anomalies map with a scale of 1:35,000 giving full coverage was completed by 1953.

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5. The Eotvos torsion balance is in use for gravity base stations and for exploration purposes. Two types of gravimeters are used for relative gravity measurements, the Norgard and the Heiland.

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6. [redacted] theoretical studies have been conducted at the Geophysical Institute to determine the vertical gradient of normal gravity. [redacted] an experimentation or observation technique from the air which originated from two "base lines" connecting Gyor with Budapest and Budapest with Debrecen. [redacted]

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SEISMOLOGY:

7. Hungary is divided into two parts for oil and mineral exploration purposes: The area west of the Danube is the area of common responsibility of the Magyar Allami Eotvos Lorand Geofizikai Intezet (Geophysical Institute) and the Magyarszov Jet Olaj Tarsasag (Hungarian-Soviet Oil Company). The Hungarian-Soviet Oil Company can explore all of Hungary, but the activity of the Geophysical Institute is restricted to the western portion only.

8. After 1945, the following areas were explored for oil by the reflection sounding method:

(Areas West of the Danube):

A. Bajcsa (near Nagykanizsa) in 1953, boring in 1956, depth 1800 to 1900 meters, [redacted]

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B. Mihalyi (near Kapuvar) in 1952.

C. Csepreg and Buk, north of Szombathely in 1953.

D. Tarkany in 1955.

No boring was done at places mentioned in B, C , and D.

(Areas East of the Danube explored by the Hungarian-Soviet Oil Company):

A. Mezokovesd- in prcduction.

B. Mezokereszttur - in production.

C. Biharnagybajom - in production.

9. [redacted] the uranium found in the area of Pecs. [redacted] The quality of the ore is supposed to be superior to that found in Czechoslovakia.

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10. The Geophysical Institute has contracts for gravitational and seismological work with [redacted] Communist China. Special crews were organized and shipped [redacted] with mobile equipment. These crews were to work and train specialists [redacted] After one to two years the crews usually returned without the equipment, and additional equipment was shipped [redacted] This activity of the Institute began in 1952. [redacted] The Soviets did not approve a similar contract with Yugoslavia.

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ORGANIZATION OF THE NATIONAL GEOPHYSICAL INSTITUTE:

11. The Institute is housed in several locations. The main adminstration is located at Voroshilov ut 99, Budapest. The seismological and

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geoelectric sections are located at Szabo Jozsef ut 2, Budapest. The sections working on geomagnetism and gravity share the building of a Protestant Institute at Damianich ut 21-23, Budapest. The general laboratory is housed in the buildings of the University of Budapest in Museum Korut. Located in the basement of that building is the gravitational datum point for all Hungary. The Geochemistry Department is located at the meteorological observatory in Pestszentlorinc. The personalities associated with each office and department are as follows:

A. Ministry of Heavy Industry.

(1) Czottner, Sandor; Minister of Heavy Industry; Member of MDP

(2) Vitalis, Dr Gyorgy; Head of the Main Administration for Terrestial Research; geologist; no definite political allegiance.

(3) Gellert, Ferenc; chief of the technical section; mining engineer; no definite political allegiance.

B. Industrial Board (Mining Department)

(1) Facsinay, Dr Laszlo; director; professor of mathematics and physics; winner of Kossuth prize for his book which appeared in 1954. 25X1

(2) Kertai, Dr Gyorgy; geologist.

C. Hungarian Academy of Sciences

(1) Erdei Gruz, Dr Tibor; Chief Secretary; Professor of Chemistry; member of the MDP.

D. Advisory Committee to the Directorate of the Hungarian National Geophysical Institute.

(1) Renner, Dr Janos; Professor of Mathematics and Physics; formerly assistant to Eotvos. Lorand (deceased) 25X1

(2) Ribar, Dr Istvan; Professor of Mathematics and Physics; formerly assistant of Eotvos (co-inventor of the Eotvos torsion balance) 25X1 25X1

(3) Oszlaszcky, Dr Szilard; astronomer; attended a university in the US; Evaluation Chief; Professor of Mathematics and Physics; 25X1

(4) Lasowsky, Dr Karoly; astronomer; studied at a university in the US, evaluator; gravitation specialist. 25X1

E. Directorate of the Hungarian National Geophysical Institute "Eotvos Lorand"

(1) Dombai, Tibor; Professor of Mathematics and Physics; Director; 25X1

(2) Hont, Ferenc; miner, mining engineer; Assistant Director; member of MDP.

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F. Personnel Department

(1) Vanya, Laszlo; department head; no professional background; MDP member.

G. Political Secretariat

(1) Bolla, Sandor; party secretary; no professional background, MDP member.

H. Expedition to Gobi Desert

(1) Galfi, Janos; expedition chief (See I, below).

(2) Horvath, Arpad; no professional background; observer; MDP member.

(3) Annau, Edgar; geophysicist, engineer; observer 25X1

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(4) Sedy, Lorand; explosive expert; (See I below).

(5) Gellert, Ferenc; geodesicist (See A above).

(6) Lalos, Miklos; evaluator; (See I below).

(7) Grimm, Lajos; (See R below).

(8) Lakatos, Lajos; boring expert; MDP member.

(9) Gal, Elemer; boring expert 25X1

(10) Banai, Gyula; gravity expert (See L below).

(11) Lendvai, Dr Karoly; evaluator (See I below).

(12) Mihalyi, Karoly; physicist; evaluator; MDP member; politically vacillating.

I. Seismological Section

(1) Galfi, Janos; Professor of Mathematics and Physics; section chief; at present in China

(2) Sedy, Lorand; no professional background; assistant section 25X1
chief; MDP member; formerly AVH member.

(3) Szenas, Dr Gyorgy; economist, geologist; former MDP member;

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(4) Petho, Marton; Professor of Mathematics and Physics;

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(5) Adam, Oszkar; Mining engineer; working in China since June 1956,

(6) Pozsgai, Karoly; mining engineer;

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(7) Palos, Miklos; mathematician, physicist, background; also working in China since June 1956;

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(8) Eros, Janos; no professional background; MDP member.

(9) Lendvai, Dr Karoly; Lawyer, former newspaperman; evaluator; works in China since June 1956 25X1

J. Geoelectrical Section

(1) Varga, Dr. Karoly; physicist; did not finish university studies; formerly section chief; 25X1

(2) Sebestyen, Dr Karoly; electrical engineer; section chief; 25X1

K. Geological and Chemical Section

(1) Berg, Arpad; chemical engineer; section chief; politically vascillating.

L. Gravitation Section

(1) Banai, Gyula; mathematician and physicist; section chief; travelled in Iran

M. Geomagnetic Section

(1) Bartha, Dr Gyorgy; meteorologist; section chief;

(2) Deer, Miklos; mathematician, physicist 25X1

(3) Szilagyi, Dr Bela; geodetic engineer

N. Miscellaneous Research Section

(1) Stegena, Lajos; Mathematician, physicist; section chief; politically undecided. 25X1

(2) Lanyi, Janos; mathematician, physicist

O. Distribution and Evaluation Section

(1) Oszlaczky Szilard; astronomer (See D above).

(2) Lasowsky, Dr Karoly; astronomer (See D above)

(3) Kilczer, Dr Gyula; Professor of mathematics and physics; 25X1

P. Technical Section.

(1) Baki, Jozsef; mechanical engineer; section chief; MDP member.

(2) Iharos, Miklos; technician; lecturer; MDP member; politically undecided. 25X1

(3) Orszagh, Janos; mining engineer; mining management

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Q. Financial Section

(1) Foldi, Gyula; bookkeeper; accountant; MDP member; politically undecided.

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(2) Horanyi, Karoly; Bachelor's degree

R. Labor Section

(1) Hobot, Jozsef; no professional background, university student; lecturer on labor; MDP member.

(2) Grimm, Lajos; no professional background; MDP member.

classified CONFIDENTIAL, is an organizational 25X1 chart of the National Geophysical Institute.

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